SOLID ELECTROLYTE TYPE FUEL CELL OF HONEYCOMB INTEGRATED STRUCTURE

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Abstract of **JP 11297344 (A)**

PROBLEM TO BE SOLVED: To increase an effective area, and to provide high power generation performance by operating as cells all the lateral and vertical partitioning walls in a solid electrolyte type fuel cell of honeycomb integrated structure. SOLUTION: Fuel electrode channels 14, 14, etc., with fuel electrodes (Ni-YSZ), air electrode channels 16, 16, etc., with air electrodes (La1-x Srx MnO3) are arranged alternately to be neighbored each other via partitioning walls of a honeycomb structure in inner walls of the honeycomb structure, comprising a solid electrolyte material 11 (yttria-stabilized zirconia(YSZ)) arranged laterally and vertically in a matrix form with a large number of honeycomb channels 12, 12, etc.; The respective fuel electrodes and the respective air electrodes are electricaly connected respectively to fuel electrode side electrodes 14a and air electrode side electrodes 16a which are provided in opened end faces of the honeycomb channels 12, 12, etc.